HOMEWORK 6

• Section 9.1 in the book: Exercises 16, 22, 24, 26.

Problem 1. Find the eigenvalues and the associated eigenvectors of the following matrices: $\begin{pmatrix} 3 & 0 & 0 \end{pmatrix}$

$\begin{pmatrix} 1 & 2 \end{pmatrix}$	$\begin{pmatrix} 4 & 4 \end{pmatrix}$	/3	0	0	
$\begin{pmatrix} -1 & 2 \end{pmatrix}$	$(4 \ 4)$	10	2	0	
$\begin{pmatrix} -1 & 2 \\ -7 & 8 \end{pmatrix}$	$\begin{pmatrix} 4 & 4 \\ 1 & 4 \end{pmatrix}$	Ĭ	0	$\begin{pmatrix} 0\\0\\1 \end{pmatrix}$	
		$\sqrt{4}$	0	1/	